

1st Grade Celestial Motion

NGSS Science Standards

ESS1-1 - Use observations of the sun, moon, and stars to describe patterns that can be predicted.

Lesson objective(s):

I can describe patterns in the moon's position.

I can compare and describe the moon's phases.

ENGAGEMENT

Talking Drawing- Students fold a paper in half (hamburger style) and in the top half of the paper draw what they know about the moon.

[Crow Star Stories: Sun and Moon \(0 min - 6:41min\)](#)

EXPLORATION

Students will create a [piccollage](#) or oreo diagram to show the different moon phases that they already know based on their background knowledge. Alternatively teachers may have students create a diagram in google drawings or using paper.

EXPLANATION

[Mystery Science- Moon Phases \(excluding activity- unless modeled by teacher only\)](#)



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ELABORATION

[Crow Star Stories: Sun and Moon \(0 min - 6:41min\)](#)

Start closer to 12 min?

Vocabulary- (or use Vocabulary from PLTW)

Terminator Line-Line separating the light and dark

Waxing-Growing

Waning- Shrinking

Gibbous- A convex curve

Quarter- less than half

EVALUATION

[Moon Tracking Calendar](#)

[Moon Template](#) - used to build moon templates

Now that you've learned what causes the Moon's phases, how would you explain it to someone who doesn't know? Students will also complete their talking drawings.

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ADDITIONAL RESOURCES

[Montana Skies](#)

[Montana Skies Crow Astronomy Teacher's Guide](#)

[Crow Astronomy Video](#)